

IN THE SPECIFICATION

Please insert the following new paragraph between paragraphs 19 and 20.

Figure 17 illustrates a filter positioned in a collimator.

Please delete paragraph number 34 and replace with the following replacement paragraph

In another embodiment, method 60 includes positioning a shaped x-ray filter in a Z direction between x-ray source 14 and a collimator 90 (shown in Figure 14). In one embodiment, the filter includes, but is not limited to, a simple stepped filter, a sloped filter per Z location or per detector cell in the Z direction, a set of K edge filters per Z location, a set of paired K edge filters per Z location, or more elaborate and complicated designs. In another embodiment, the filter is positioned in collimator 90. Gantry 12, including x-ray source 14, is then rotated about object 22 using an x-ray source pitch of one detector cell such that each detector cell 20 of detector 18 images the same slice of object 22 using a different x-ray spectrum. For example, using imaging system 10 including an eight slice detector, method 60 generates eight overlapping images each created with a different energy x-ray beam. The data from each of these eight slices is then analyzed to determine the spectral content associated with the anatomical CT slice data.